# Submitting Computer Homework

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In order to make it easier for you to turn in your computer homework, and easier for the person grading them, I will outline a standard way to submit computer homework. Generally, you turn in two or three parts of the computer assignments:

- 1. program code
- 2. output or solution
- 3. plots

Program code consists of your actual program (or programs) that you typed in yourself, the output is what the computer program sends to the screen and the plots are graphs that your program generates and displays on the screen.

To submit your computer homework, use an IDE such as ChSciTE or a text editor such as Notepad to open your programs and print them.

# 1 Run Your Program

### 1.1 Run from ChSciTE in Windows and Linux

Run your program based on the instruction available under ChSciTE Help menu of ChSciTE. It is also available at http://chscite.sourceforge.net.

### 1.2 Run from TextWrangler in Mac OS X

Run your program based on the instruction available under Ch TextWrangler. More information is available at http://iel.ucdavis.edu/projects/chide/textwrangler.

### 1.3 Run from Ch Command Shell

- 1. Launch a Ch command shell. In Windows, just double click the icon of Ch on the desktop. In Linux and Mac OS X, type 'ch' in a command shell.
- 2. Change the directory where your program is located.

- 3. Clear the screen by typing command clear
- 4. For program myhello.c, run it as follows:

~/EME5-01> myhello.c > output.txt

output.txt is the file which stores the output of your program.

5. Open Notepad or any other text editor to open the output.txt, then print it out.

# 2 Obtain a Screen Shot

### 2.1 Method 1: Use GIMP to Obtain a Screen Shot

Download GIMP from http://www.gimp.org/windows/ for Windows and http://www.gimp.org/macintosh/ for Mac OS X. It can be used to acquire an image from the screen using the following procedure.

- 1. Click menu File,
- 2. click menu Acquire,
- 3. click menu Screen Shot,
- 4. click Grab. Then, move the cursor to a window to be acquired.
- 5. Save or print out the acquired window.

### 2.2 Method 2: Use Paint Program to Obtain a Screen Shot

Make sure the Ch window with your program is on top and then take a picture of the screen using the print screen button.

- 1. Open Paint from the Start/Accessories menu.
- 2. Select paste from Edit menu.
- 3. Answer yes to the dialog box.
- 4. From the toolbox on the left side select the perforated box.
- 5. Highlight the Ch window with your run program by clicking and dragging from one corner to the other.
- 6. Select copy from the Edit menu.
- 7. Open a new Paint document by selecting new from the File menu.

- 8. Answer the question in the dialog box, you don't have to save.
- 9. Select paste form the Edit menu and answer yes to the dialog box.
- 10. Under the Image menu select Stretch/Skew the resize the image to fit of on a page.
- 11. Print out the picture.

# 3 Print a Plot

### **3.1** Print a Plot in Windows

One of the following methods can be used to print out a plot in Windows.

- 1. (a) Run a Ch program with plotting, click the upper left corner of the window with plotting.
  - (b) Select print from option menus, configure and printing accordingly.
- 2. (a) Run a Ch program with plotting, click the upper left corner of the window with plotting.
  - (b) Select save to clickboard.
  - (c) Open Word, paste plot from clickboard to Word.
  - (d) print out Word doc with the plot.
- 3. Use GIMP or Paint to grab the image and print it out.
- 4. Within your Ch program related to plotting, use plotting member function to generate a plot in postscript file, say **filename.ps** or PNG file, as shown below.

```
plot.outputType(PLOT_OUTPUTTYPE, "postscript eps", "filename.ps");
plot.outputType(PLOT_OUTPUTTYPE, "png", "filename.png");
```

Then, print out the plot in postscript file using acroread or program **GSview**. Or print out the plot in PNG file using a Web browser.

### 3.2 Print a Plot in Linux or Mac

One of the following methods can be used to print out a plot in Linux or Mac.

- 1. Use GIMP to grab the image and print it out.
- 2. Within your Ch program related to plotting, use plotting member function to generate a plot in postscript file, say **filename.ps** or PNG file, as shown below.

plot.outputType(PLOT\_OUTPUTTYPE, "postscript eps", "filename.ps"); plot.outputType(PLOT\_OUTPUTTYPE, "png", "filename.png"); Then, print out the plot in postscript file using acroread or program **ghostview**. Or print out the plot in PNG file using a Web browser.

- 3. For Mac users, use Ch TextWrangler, follow instructions at http://iel.ucdavis.edu/projects/chide/textwrangler.
- 4. Use program **xv** to grab the plot off the screen, save it as a Postscript file, then print out the file. Follow the following procedure:
  - (a) type xv;
  - (b) move cursor to the xv window and click right button of the mouse;
  - (c) click "Grab" in xv control panel with right button of the mouse;
  - (d) Move the cursor to the upper left corner of the picture, hold down the mid button of the mouse and drag it to the lower right corner of the picture, then release the button.
  - (e) Click "Save" in the xv control panel and save the picture in postscript file.
  - (f) print out the saved file using command lpr.